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TITLE: EYEGLOSS COMBINATION HAVING AUXILIARY FRAME

BACKGROUND OF THE INVENTION

1. Field of the Invention

05 The present invention relates to a pair of eyeglasses, and more particularly to a pair of eyeglasses having an auxiliary frame for supporting auxiliary lenses.

2. Description of the Prior Art

10 The closest prior art of which applicant is aware is US Patent 5,568,207 to Chao and has been assigned to the present assignee. The primary frame are required to be engaged with magnets for actuating with the magnets engaged in the auxiliary frame, such that the auxiliary frame may not be attached to typical spectacle frame
15 having no magnets therein.

The present invention has arisen to mitigate and/or obviate the afore-described disadvantages of the conventional auxiliary spectacle frames.

SUMMARY OF THE INVENTION

20 The primary objective of the present invention is to provide an auxiliary frame for attaching typical spectacle frame having no magnets therein.

The other objective of the present invention is to provide a primary frame and an auxiliary frame having
25 ~~magnets disposed laterally.~~

In accordance with one aspect of the invention, there is provided an eyeglass combination comprising a

primary frame including a first bridge and including two sides each having a stud, and an auxiliary frame for disposing in front of the primary frame, the auxiliary frame including a second bridge and including
05 two sides each having an extension extended rearward toward the primary frame and extended over the studs, the extensions each including a rear end having a first flange extended downward for engaging with the stud and for securing the auxiliary frame to the primary frame.

10 The studs of the primary frame are made of magnetic material, the first flanges each includes a magnet for engaging with the studs of magnetic material and for securing the auxiliary frame to the primary frame.

15 The studs of the primary frame each includes a first magnet, the first flanges each includes a second magnet for engaging with the first magnet of the stud and for securing the auxiliary frame to the primary frame.

20 The first and the second magnets each includes a first pole and a second pole disposed in front of the first pole.

The second bridge includes an arm extended over the first bridge of the primary frame, the arm includes
25 ~~a rear end having a second flange extended downward for~~
engaging with the first bridge and for securing the auxiliary frame to the primary frame.

The first bridge of the primary frame includes a first magnet, the second flange includes a second magnet for engaging with the first magnet of the first bridge and for securing the auxiliary frame to the primary frame.

In accordance with another aspect of the invention, there is provided an eyeglass combination comprising a primary frame including a first bridge, the first bridge including a first magnet, and an auxiliary frame for disposing in front of the primary frame, the auxiliary frame including a second bridge having an arm extended rearward toward the primary frame and extended over the first bridge, the arm including a rear end having a flange extended downward for engaging with the first bridge and for securing the auxiliary frame to the primary frame, the flange including a second magnet for engaging with the first magnet and for securing the auxiliary frame to the primary frame.

In accordance with the other aspect of the invention, there is provided an eyeglass combination comprising a primary frame including a first bridge and including two sides each having a stud, and an auxiliary frame for disposing in front of the primary frame, the auxiliary frame including a second bridge and including two sides each having an extension extended rearward toward the primary frame and extended

over the studs, the second bridge including an arm extended rearward, the extensions and the arm each including a rear end having a flange extended downward for engaging with the stud and the first bridge and for
05 securing the auxiliary frame to the primary frame.

The studs and the first bridge of the primary frame are made of magnetic material, the flanges each includes a magnet for engaging with the studs and the first bridge of magnetic material and for securing the
10 auxiliary frame to the primary frame.

Further objectives and advantages of the present invention will become apparent from a careful reading of a detailed description provided hereinbelow, with appropriate reference to accompanying drawings.

15 BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is an exploded view of an eyeglass combination having an auxiliary frame in accordance with the present invention;

FIG. 2 is a perspective view of the eyeglass
20 combination; and

FIG. 3 is a cross sectional view taken along lines 3-3 of FIG. 2.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to the drawings, and initially to FIGS.
25 1 and 2, an eyeglass combination in accordance with the present invention comprises a primary frame 10 for supporting primary lenses 90 and including a bridge 11

formed in the middle and including two studs 12 formed in the side portions. The bridge 11 and the studs 12 each includes a magnet 14 disposed laterally having a pole (such as S as shown in FIG. 3) arranged in front of the other (N in FIG. 3).

An auxiliary frame 20 for supporting auxiliary lenses 91 and for disposing in front of the primary frame includes a bridge 21 and two extensions 22 disposed in the side portions and extended rearward for engaging over the bridge 11 and the studs 12 of the primary frame 10 respectively. The bridge 21 includes an arm 24 extended rearward. The extensions 22 and the arm 24 each includes a rear end having a flange 23, 25 dependent downward. The flanges 23, 25 each includes a magnet 26 disposed laterally having a pole (S in FIG. 3) arranged in front of the other (N in FIG. 3) for allowing the S pole to engage with the N pole of the magnet 14 of the primary frame 10.

It is to be noted that the flanges 23, 25 of the extensions 22 and of the arm 24 are extended downward for engaging with the studs 12 and the bridge 11 such that the flanges 23, 25 themselves form a hook means for securing the auxiliary frame 20 to the primary frame 10. In addition, the magnets 14, 26 are disposed laterally such that the flanges 23, 25 may further be stably and solidly attracted and retained in place.

It is further to be noted that the flanges 23, 25

may also be used to hook to the typical eyeglasses having no magnets engaged therein, such that the auxiliary frame 20 may be attached to any of the typical eyeglasses. Particularly, when the typical
05 eyeglasses are made of metal or other magnetic materials, the magnets 26 of the auxiliary frame 20 may also be used for attracting the typical eyeglasses and may also be used for solidly securing the auxiliary frame to the typical eyeglasses.

10 It is also to be noted that with only the arm 24 and the magnet 26 therein, the auxiliary frame 20 may also be solidly secured to the primary frame 10. Without the arm 24 and without the magnets 26, the
15 auxiliary frame 20 may also be secured to the primary frame 10 by engaging the flanges 23 with the studs 12. The provision of the magnets 26 and 14 may further solidly secure the auxiliary frame 20 to the primary frame 10.

20 Accordingly, the eyeglass combination in accordance with the present invention includes an auxiliary frame having a pair of extensions and/or an arm for engaging with the studs and/or the bridge of the primary frame, for allowing the auxiliary frame to be secured to various kinds of eyeglasses having no
25 ~~magnets therein.~~ In addition, the provision of the flanges 23, 25 may also be used for solidly securing the auxiliary frame to the primary frame 10.

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